hPTH 1-9 , Seq. L.D. No. 2 B NH_2 -Ser¹-Val²-Ser³-Glu⁴-Ile⁵-Glh⁶-Leu⁷-Met⁸-His⁹-OH hPTH 1-8 Seg. Ep. No. 3 NH_2 -Ser¹-Val²-Ser³-Glu⁴-Ile⁵/Gln⁶-Leu⁷-Met⁸-OH 3 hPTH 1-7 589. I.D. NO.4 B NH_2 -Ser¹-Val²-Ser³-Glu⁴-I $\oint e^5$ -Gln⁶-Leu⁷-OH NH2-Ser1-Val2-Ser3-Glu4/Ile5-Gln6-OH 3 NH_2 -Ser¹-Val²-Ser³-G $\int u^4$ -Ile⁵-OH NH_2 -His⁹-Asn¹⁰-Leu¹/₁-Gly¹²-Lys¹³-His¹⁴-Leu¹⁵-Asn¹⁶-Ser¹⁷-THE TUBBLY SUBSTITUTE OF THE S Met¹⁸-OH hPTH 10-18,49 $y^{\chi_2^2}$ -Lys 13 -His 14 -Leu 15 -Asn 16 -Ser 17 -Met 18 -OH Lys¹³-His¹⁴-Leu¹⁵-Asn¹⁶-Ser¹⁷-Met¹⁸-OH B ${ t His}^{14} { t - Leu}^{15} { t - Asn}^{16} { t - Ser}^{17} { t - Met}^{18} { t - OH}$ hPTH 13-18 Len 15-Asn 16-Ser 17-Met 18-OH hPTH 14-18, NH₂-Hi -Asn¹⁶-Ser¹⁷-Met¹⁸-OH hPTH 9/17, 549. 20. NO. 13 10 -Leu 11 -Gly 12 -Lys 13 -His 14 -Leu 15 -Asn 16 -Ser 17 -OH hPTH /9-16,54. T.D. No. 15 NH_2 - His^9 - Asn^{10} - Leu^{11} - Gly^{12} - Lys^{13} - His^{14} - Leu^{15} - Asn^{16} -OH

(14)

(2)

(3)

(4)

(5)

(6)

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(8)

(9)

(10)

(11)

(12)

(15)(16)(17) $NH_2-Leu^{24}-Arg^{25}-Lys^{26}$ $Lys^{27}-Leu^{28}-Gln^{29}-Asp^{30}-Val^{31}-His^{32}-Asn^{33}-His^{32}$ (18) $NH_2-Arg^{25}-Lys^{26}-Lys^{27}-Leu^{28}-Gln^{29}-Asp^{30}-Val^{31}-His^{32}-Asn^{33}-Machine + Machine + Machine$ (19)(20)(21) ${\rm Gln}^{29}$ -Asp 30 -Val 31 -His 32 -Asn 33 -Phe 34 -Val 35 -Ala 36 -(22) $^{\prime}$ al 31 -His 32 -Asn 33 -Phe 34 -Val 35 -Ala 36 -Leu 37 -OH (23)(24)(25)

3

Seq. I.D. NO. 26 hPTH 32-37, /-Ala³⁶-Leu³⁷-OH NH_2 -His³²-Asn³³-Phe³⁴-Val³ (26)hPTH 33-37/59 NH_2 -Asn³³-Phe³⁴-Val³⁵-Ala³⁶-Leu³⁷-OH 3 (27)hPTH 24-36,591. ${\rm NH_2-Leu^{24}-Arg^{25}-Lys^{26}-Lys^{27}-Leu^{28}-Gln^{29}-Asp^{30}-Val^{31}-His^{32}-Asn^{33}-His^{32}-Asn^{32}-As$ Phe³⁴-Val³⁵-Ala³⁶-OH hPTH 24-35, SH. 5.7 NO. 99
NH₂-1.0..²⁴ (28) ${\rm NH_2-Leu^{24}-Arg^{25}-Lys^{26}-Lys^{27}-Leu^{28}-Gln^{29}-Asp^{30}-Val^{31}-His^{32}-Asn^{33}-His^{32}-Asn^{32}-As$ Phe34-Val35-OH b. No. 30 (29)hPTH 24-34 59. $NH_2-Leu^{24}-Arg^{25}-\mu ys^{26}-Lys^{27}-Leu^{28}-Gln^{29}-Asp^{30}-Val^{31}-His^{32}-Asn^{33}-His^{32}-Asn^{32}-His^{32}-Asn^{32}-His^{32}-Asn^{32}-His^{32}-Asn^{32}-His^{32}-Asn^{32}-His^{32}-Asn^{32}-His^{32}-Asn^{32}-His^{32}-Asn^{32}-His^{32}-Asn^{32}-His^{32}-Asn^{32}-His^{32}-Asn^{32}-His^{32}-Asn^{32}-His^{32}-Asn^{32}-His^{32}-Asn^{32}-His^{32}-Asn^{32}-His^{32}-Asn^{32}-His^{32}-Asn^{32}-His^{32}-Asn^{32}-His^{32}-His^{32}-His^{32}-His^{32}-His^{32}-His^{32}-His^{32}-His^{32}-His^{32}-His^{32}-His^{32}-His^{32}-His^{32}-His^{32}-His^$ Phe³⁴-OH (30)42.5 $Lys^{27}-Leu^{28}-Gln^{29}-Asp^{30}-Val^{31}-His^{32}-$ Asn³/ ⊼OH I.D. No. 32 (31)hPTH 24-32/ 3 Pro of the ${
m Lys^{26}-Lys^{27}-Leu^{28}-Gln^{29}-Asp^{30}-Val^{31}-His^{32}-OH}$ (32)J.D. NO. 33 B ys²⁶-Lys²⁷-Leu²⁸-Gln²⁹-Asp³⁰-Val³¹-OH NH₂-Ļeu²⁴ (33)C.O. NO.34 hPTH В $-Arg^{25}$ -Lys 26 -Lys 27 -Leu 28 -Gln 29 -OH NH2-Leu (34)hPTH 24-28 Syn. 5. D. A10. 36 NH₂-Leu²⁴-Arg²⁵-Lys²⁶-Lys²⁷-Leu²⁸-OH (35)